

TDC (CBCS) Odd Semester Exam., 2018

ZOOLOGY

(1st Semester)

Course No. : ZOODSC-101T/ZOOGEC-101T

(Animal Diversity)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer all questions

UNIT—1

1. Answer any *three* of the following questions :

1×3=3

- (a) What are the different types of locomotory organelles found amongst Protozoans?
- (b) Write two distinctive features of Porifera.
- (c) Write two important functions of canal system in *Sycon*.
- (d) What are Nematocysts?

(2)

2. Answer any *one* of the following questions : 2

- (a) Write four differences between polyp and medusa.
- (b) Write four differences between cilia and flagella.

3. Answer any *one* of the following questions : 5

- (a) Define Polymorphism. Describe Polymorphism forms of polyps found in *Siphonophora* with suitable illustration.
1+4=5
- (b) Who proposed sol-gel theory? Explain the theory by taking example of pseudopodial movement in *Amoeba*. 1+4=5

UNIT—2

4. Answer any *three* of the following questions :
1×3=3

- (a) Write two distinctive characters of Platyhelminthes.
- (b) Write two parasitic adaptive features of *Ascaris lumbricoides*.
- (c) What is Hirudin?
- (d) Name the primary and secondary hosts of *Taenia solium*.

(3)

5. Answer any *one* of the following questions : 2

- (a) Write four general features of phylum Annelida.
- (b) Write a short note on pathogenicity of *Taenia solium*.

6. Answer any *one* of the following questions : 5

- (a) Describe the life cycle of *Ascaris lumbricoides* with illustration.
- (b) Describe the digestive system of leech with suitable diagram.

UNIT—3

7. Answer any *three* of the following questions :
1×3=3

- (a) What is ommatidium?
- (b) What is Dermat branchia?
- (c) Write two distinctive characters of Mollusca.
- (d) Write two important functions of the water vascular system in starfish.

8. Answer any *one* of the following questions : 2

- (a) Write four salient features of phylum Arthropoda.
- (b) Write four differences between Hemimetabolous and Holometabolous development in insects.

(4)

9. Answer any *one* of the following questions : 5

- (a) Define torsion. Discuss torsion in Gastropods with illustration.
- (b) Discuss water vascular system in starfish with illustration.

UNIT—4

10. Answer any *three* of the following questions :
1×3=3

- (a) What are Protochordates?
- (b) Give two examples of Cartilagenous fishes.
- (c) Why are the Urochordates also called Tunicates?
- (d) Write two distinctive characters of Agnatha.

11. Answer any *one* of the following questions : 2

- (a) Write four differences between protochordates and vertebrates.
- (b) Write four differences between Chondrichthyes and Osteichthyes.

(5)

12. Answer any *one* of the following questions : 5

- (a) Define osmoregulation. Discuss osmoregulation in freshwater fishes with illustration.
- (b) What are cyclostomes? Classify cyclostomes with characters and examples.

UNIT—5

13. Answer any *three* of the following questions :
1×3=3

- (a) Give two examples of marsupial animal.
- (b) Write two distinctive features of Amphibia.
- (c) Give two examples of venomous snakes found in India.
- (d) Write two flight adaptations in birds.

14. Answer any *one* of the following questions : 2

- (a) Differentiate between poisonous and non-poisonous snakes.
- (b) Write four salient features of class Mammalia.

15. Answer any *one* of the following questions : 5

- (a) Discuss the biting mechanism in snakes with illustration.
- (b) Define parental care. Discuss parental care in Amphibia with illustration.

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